

## Precalc Warm Up #14-3

1. Find the area and perimeter of the sector:



2. Solve the triangle:  $a=14$ ,  $b=23$ ,  $A=25^\circ$

## Practice:

What is the effective annual yield of a \$4500 investment, compounded monthly at 5.24%?

$$A = 4500 \left( 1 + \frac{0.0524}{12} \right)^{12}$$

↓  
1.0524

$$A = 4500 \left( 1 + \frac{0.0524}{12} \right)^{12}$$

$$\left( \frac{12.0524}{12} \right)^{12}$$

$$\approx 1.0537$$

$$5.37\%$$

Practice:

What is the effective annual yield of a \$8000 investment, compounded continuously at 5.6%?

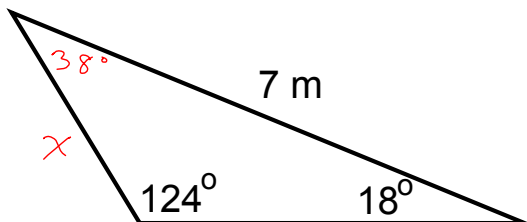
$$A = Pe^{rt}$$

$$A = 8000 \left( \underbrace{e^{0.056}} \right)$$

$$\approx 1.0576$$

$$5.76\%$$

Find the area of the triangle (nearest tenth)



$$\frac{x}{\sin 18^\circ} = \frac{7}{\sin 124^\circ}$$

$$x \approx$$

→ store it!

$$A = \frac{1}{2}(7)x \sin 38^\circ$$

$$A \approx 5.62$$

## Answers to Final Review

Ch. 6 cont'

4. a

5. c

6. b

7. a

8. b

9. b

15. b

Ch 7

1. b

2. a

3. c

4. d

5. b

6. d

7. a

SL Book

3)  $\theta = \frac{17}{11} \approx 1.545$

$\approx 88^\circ 33'$

4)  $\approx 1.333 \approx 76^\circ 24'$

5)  $A = 12.25 \text{ cm}^2$

6)  $A \approx 43.28 \text{ m}^2$

Bad 2nd picture! :)

8)  $g(f(x)) \rightarrow r_f \notin d_g$   
 $[0, \infty) \notin [4, \infty)$   
 (No)  $f(g(x)) \rightarrow r_g \in d_f$   
Yes  $[0, \infty) \in \mathbb{R}$

Ch. 12  $\begin{pmatrix} 12 \\ i \end{pmatrix} \begin{pmatrix} -5 \\ 9 \end{pmatrix}$  ii  $\begin{pmatrix} 1 \\ -5 \end{pmatrix}$  iii  $\begin{pmatrix} 4 \\ -2 \end{pmatrix}$

2. i)  $5i + 3j$  ii)  $\frac{1}{4}i + \frac{3}{2}j$

3) i)  $2\sqrt{5}$  ii)  $\sqrt{26}$

4 i)  $9i - 3j$

ii)  $-3i + 7j$

iii)  $3i + 20j$

5)  $\frac{1}{\sqrt{30}} \begin{pmatrix} 5 \\ -2 \\ 1 \end{pmatrix}$